

User Guide



Fixed Flow Pumps

FOR SUBMERSIBLE OR INLINE USE



FOR PUMP MODELS

| | | |
|-------------|-------------|-------------|
| 3170 | 4950 | 7400 |
| #728335 | #728485 | #728340 |



Fixed Flow Pumps

FOR SUBMERSIBLE OR INLINE USE

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SAFETY INFORMATION

Before operating this pump, please read this User Guide carefully and keep it stored in safe place for future reference.

– IMPORTANT –

▼ PLEASE READ ALL SAFETY INFORMATION PRESENTED IN THIS USER GUIDE ▼

CAUTION:

1. Thermally protected enclosure: Type 3 for indoor and outdoor use.

Electrical Warning: Risk of electric shock

1. This pump has not been evaluated for use in swimming pools or marine areas.
2. This pump is supplied with a grounding conductor, grounding type attachment plug.
Be certain that it is connected only to a properly grounded, grounding type receptacle.

To reduce risk of electric shock:

1. Install only on a circuit protected by a ground-fault circuit interrupter (GFCI).
2. See “User Guide” section for proper installation.
3. Use only on portable self-contained tanks, reservoirs, ponds and fountains no larger than 5 feet in any dimension.

Warning:

1. Keep children away from this appliance and do not let them play with the product.
2. DO NOT operate unit if people are in water.
3. A high-voltage connector is in the unit. Be sure to turn off the main power supply prior to cleaning or performing any maintenance on the unit.
4. Never cut the power plug and replace it yourself. This may lead to serious injury or death.
5. Never open the pump housing or its components unless specified in this User Guide.
6. Unplug unit from power source immediately if it shows any sign of abnormal water leakage.
7. This appliance should not be used if the plug or receptacle is wet.
8. Do not operate if the power supply cord, plug or any other parts are damaged.
9. Close supervision is necessary when used by or near children. This appliance is not a toy.
Keep away from children.
10. To avoid injury, do not contact moving parts.
11. Never yank on the cord to pull plug from the outlet.
12. Do not use this pump for other than intended use. The use of certain attachments not recommended or sold by EcoPlus® may cause unsafe conditions and void product warranty.
13. Make sure pump is mounted securely to tank, reservoir or pond.

THIS APPLIANCE HAS LIMITED USER SERVICEABLE PARTS

The following restrictions apply to this unit:

- NEVER use this unit to pump fluids other than water.
- NEVER run this unit without water.
- DO NOT use for commercial or industrial purposes.
- DO NOT use in conjunction with chemicals, foodstuffs, easily flammable or explosive substances.

USAGE CAUTIONS:

A. Before operating pump:

1. Check that the power voltage and frequency conforms to the power ratings on the nameplate.
2. Don't lift, lower or carry pump by the power cable.
3. Always unplug the pump when not in use. Do not place hands in water where the pump is installed or before performing any maintenance and cleaning.
4. Do not add any lubricants to the pump.
5. Do not operate the pump without water as this will cause severe damage.
5. This pump is not self-priming. Make sure the water lines and pump(s) are filled with water prior to turning on.
6. Do not install or store the pump where it will be exposed to weather or temperatures below freezing.
7. Do not operate pump in water temperatures higher than 86° F.

B. The pump should not be used if:

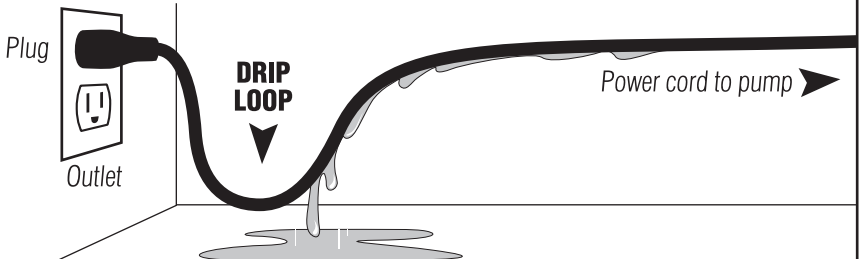
1. Do not operate pump if the power supply cord, plug or any other parts have any damage.
2. If cord is damaged, pump should not be used and disposed of properly.
3. Pump has a wet plug or a wet receptacle.
4. Water discharge from pump is reduced.
5. A part is broken and water leaks in.
6. Anything abnormal occurs.
7. If people or body parts are in the water.

C. During pump operation:

1. Shut off power immediately to prevent motor from burning out when overloaded due to clogging from foreign materials.
2. Please consult store where you purchased the pump or EcoPlususa.com if the pump is not working properly. DO NOT disassemble or assemble the pump, as this may result in severe damage.

ALWAYS SET UP A DRIP LOOP

A "Drip Loop" prevents the plug or electrical outlet from getting wet and should be set up for each cord connecting the pump to an electrical outlet (see diagram below). The Drip Loop itself is the part of the cord below the level of the outlet (or connector if an extension cord is used). This prevents any water from traveling along the cord and coming into contact with the outlet!



USER GUIDE

Introduction

EcoPlus® Fixed Flow Rate Submersible or Inline Pumps are quality products that are designed using the very latest pump technology. These pumps are suitable for use in hydroponic systems, ponds, aquariums, fountains and filter systems. The pumps are designed with “synchronous technology,” where electrical parts are fully encapsulated in epoxy resin. This unit is constructed with high quality, fully tested and rated components to ensure the best performance possible.

Features include:

- Driven by a high power rare earth rotor magnet.
- Only 1 moving part for trouble-free operation.
- Suitable for indoor or outdoor use with freshwater only.
- Can be used in fully submersible or inline applications.
- Diverse selection of fittings are included with every pump.
- Quiet oil-free motor.
- 1 year warranty (see back cover).

Operating Instructions

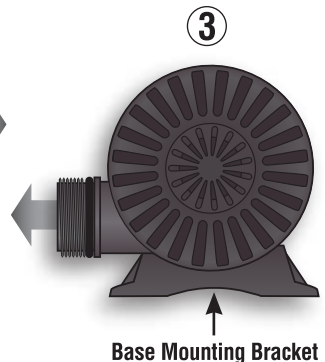
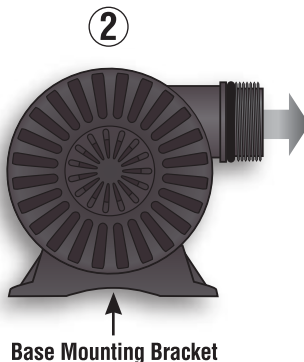
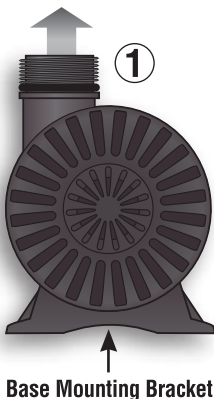
HELPFUL HINTS

- Never let the pump run dry. Doing so will damage pump and could void the warranty.
- Place pump in minimum of 6 inches and a maximum of 3 feet below water surface.
- Always place on stable surfaces that are free from sludge, sand and other debris.

HORIZONTAL OR VERTICAL DISCHARGE:

The base mounting bracket can be placed on the bottom or either side of the pump for a choice of 3 discharge positions.

To change pump discharge orientation, simply slide the base mounting bracket off the bottom of the pump and replace it on either side (the ridges on the sides of the pump are the “rails” that the mounting bracket slides onto).



SUBMERSIBLE APPLICATIONS:

This pump is designed to operate when completely submerged in water.

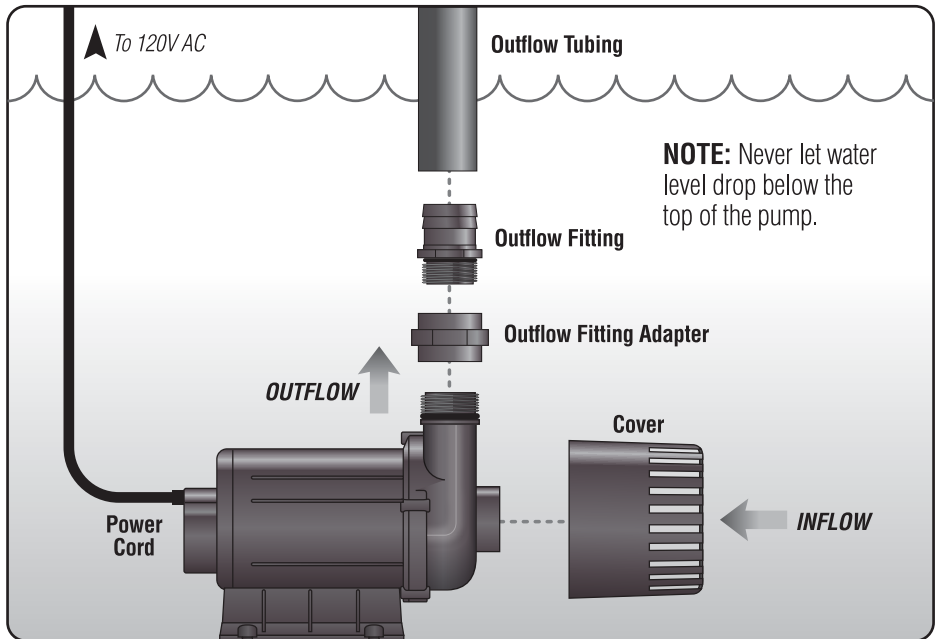
CAUTION: Do not put plug and pump into water together. If plug drops into water, power supply should be turned off to avoid electric shock. Pump can be used indoors or outdoors. Supply cord cannot be changed or replaced. It cannot be bent or used to carry the pump. If cord is damaged, do not use pump. Do not reach for pump while it is submerged and connected to a power supply.

Basic Setup:

1. Make sure your pump is sized correctly for the volume of water to be moved and that it can safely and effectively operate in your system.
2. Install outflow or inflow fittings onto the pump that are appropriate for your application and that correctly fit any tubing connected to them.
3. Connect tubing, making sure the inner diameter of the tubing matches the outside diameter of the fittings installed.
4. Double check to make sure all fittings are secure and that the Cover is installed correctly.
6. Fill your system with water.
6. Connect the pump's grounded power plug to a grounded electrical outlet.

EXAMPLE 1: Typical Submersible Application

Pump fully submerged between 6 inches to 3 feet below water surface and secured to bottom or side of reservoir or tank. Pump operates with the cover installed.



INLINE APPLICATIONS:

This pump is designed to operate in a system without being submerged in water.

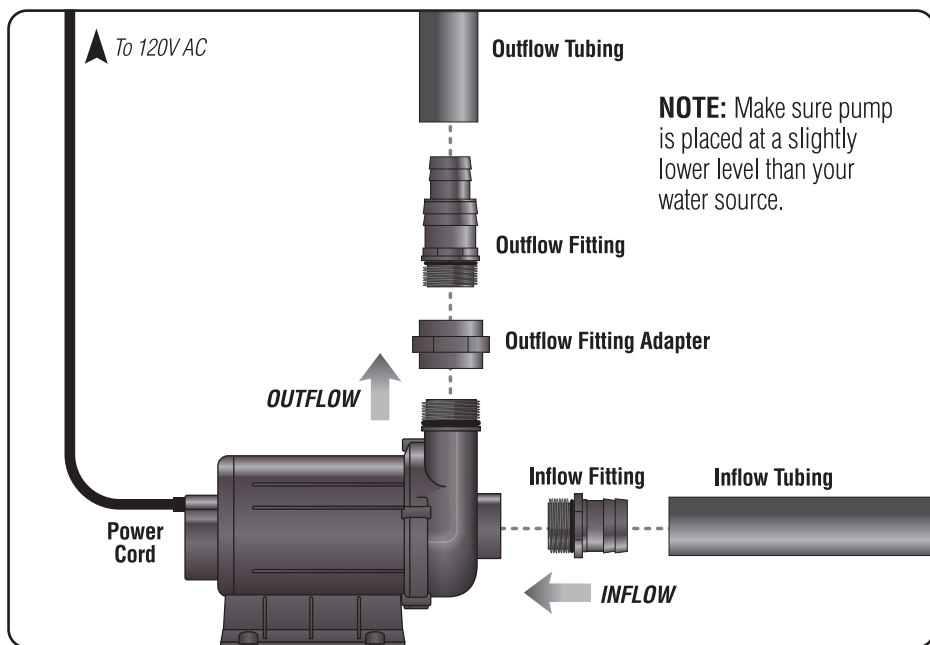
CAUTION: This pump is not self-priming, which requires it to be filled with water and slightly lower than the water level in a reservoir, tank, pond or aquarium. If plug drops into water, power supply should be turned off to avoid electric shock. Pump can be used indoors or outdoors. Supply cord cannot be changed or replaced. It cannot be bent or used to carry the pump. If cord is damaged, do not use pump.

Basic Setup:

1. Make sure your pump is sized correctly for the volume of water to be moved and that it can safely and effectively operate in your system.
2. Place pump in desired location, ensuring that the pump will operate at a slightly lower level than your water source.
3. Install inflow and outflow fittings onto the pump that are appropriate for your application and that correctly fit any tubing connected to them.
4. Install a connection on your water source using appropriately sized fittings.
5. Install tubing on all connections, making sure the inner diameter of the tubing matches the outside diameter of the fittings installed.
6. Double check to make sure that all connections are secure.
7. Fill your system with water.
8. Connect the pump's grounded power plug to a grounded electrical outlet.

EXAMPLE 2: Typical Inline Application

Secured pump NOT submerged in water (note that the cover is not installed).



Cleaning & Maintenance

EcoPlus® Fixed Flow Submersible or Inline Pumps do not require lubrication or any special maintenance. The following general maintenance and cleaning steps will improve the pump's performance and life.

1. Turn off the power supply, move the pump to a dry location.
2. Loosen the screws from the impeller cover; remove the impeller cover from the pump body by lightly shaking the unit.
3. Pull the rotor assembly away from the pump body.
4. Wash parts with fresh water carefully.
5. Reattach the rotor to the pump body carefully after cleaning; make sure the 2 holes on the impeller base and the 2 dowels on the pump body fit together for proper assembly.
6. Turn the rotor by hand, the rotor should move freely.
7. Check the "O" ring of the pump body.
8. Replace the impeller cover on the pump body and tighten the stainless steel screws.

Replacement Parts

| MODEL | PART # | DESCRIPTION |
|---|--------|---|
| Eco-3170 | 728336 | EcoPlus Eco-3170 Replacement Shaft & Impeller |
| Eco-4950 | 728486 | EcoPlus Eco-4950 Replacement Shaft & Impeller |
| | 748494 | EcoPlus Eco-3170/4950 Submersible Pump Replacement Impeller Cap for 728335/728485 |
| <i>For EcoPlus Eco-7400 parts please contact us at ecoplususa.com</i> | | |

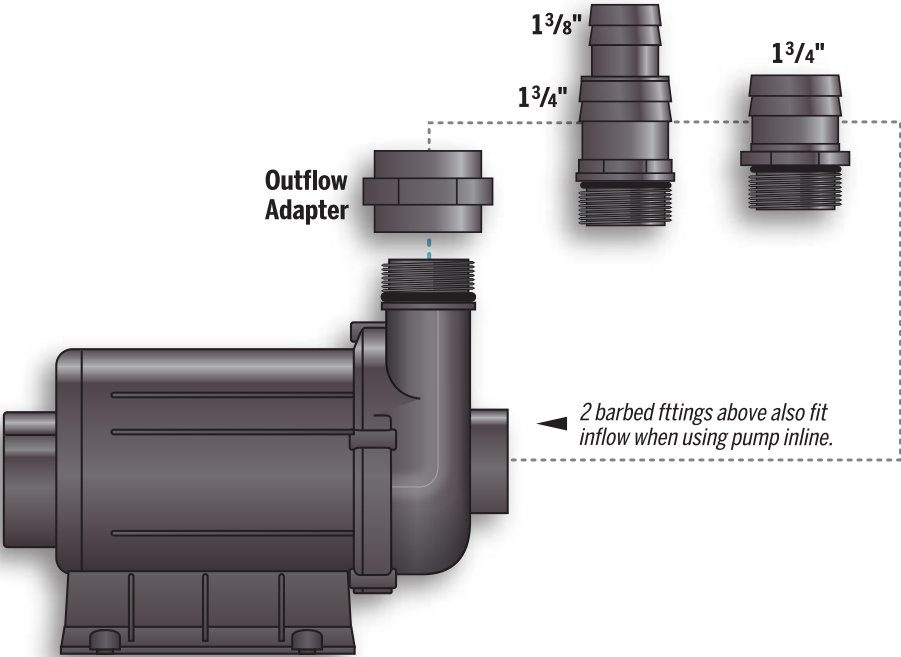
PUMP SPECIFICATIONS

All pumps listed on the following pages can be used indoors or outdoors with freshwater only.
Maximum operating water temperature is 86° F (30° C).
Head capacities may vary depending on actual operating conditions.

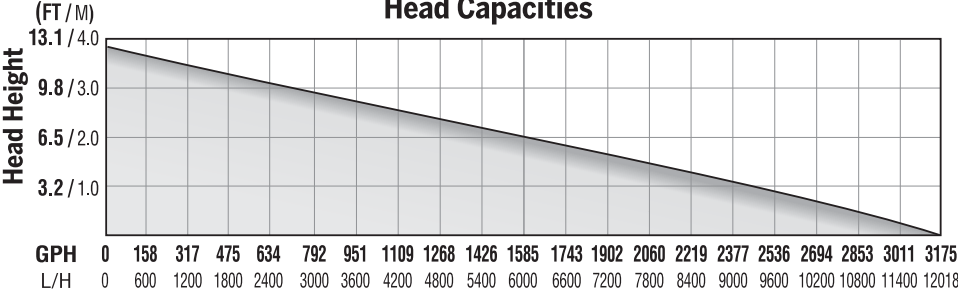
NOTE: All fitting sizes shown in diagrams are Outside Diameter (O.D.)

Eco-3170

| Product # | Power | Amps | Watts | GPH/LPH | H-Max (FT/M) | PSI | Dimensions (inch / mm) |
|-----------|--------------|------|-------|---------------|--------------|------|------------------------------------|
| 728335 | 120 V / 60Hz | 2.0 | 160 | 3175 / 12,018 | 12.4 / 3.7 | 5.48 | 10.5 x 5.1 x 6.9 / 268 x 130 x 174 |

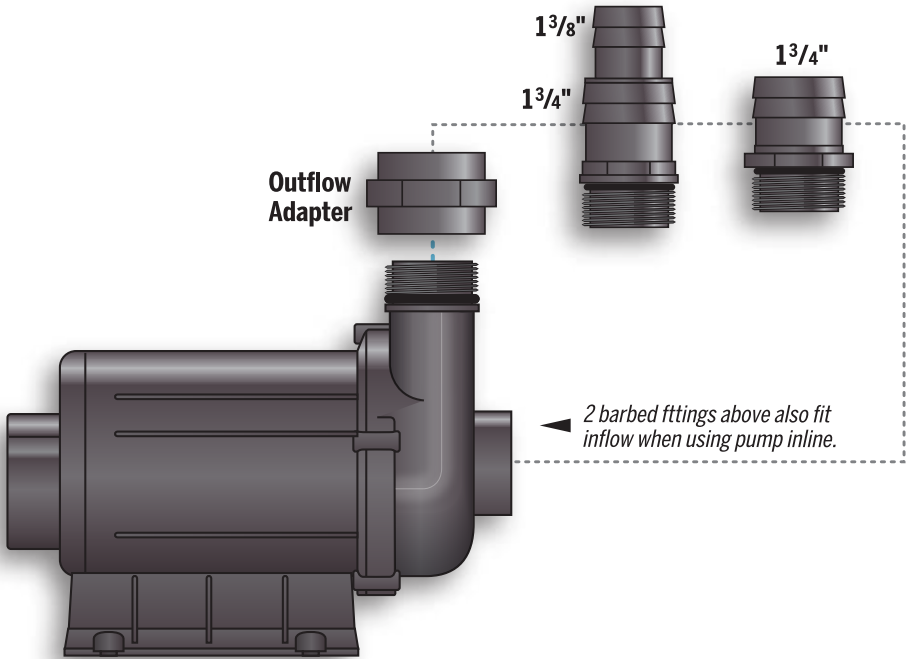


Head Capacities

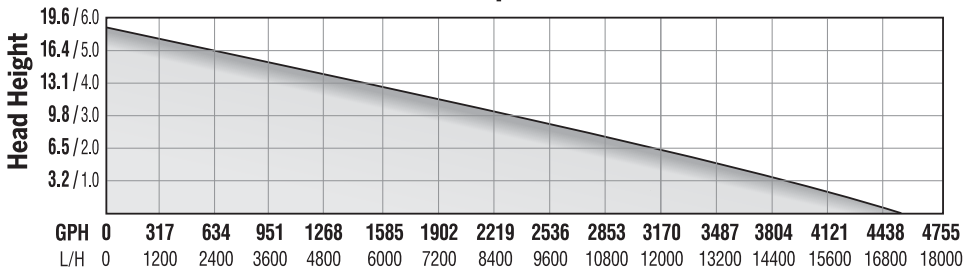


Eco-4950

| Product # | Power | Amps | Watts | GPH/LPH | H-Max (FT/M) | PSI | Dimensions (inch / mm) |
|-----------|--------------|------|-------|---------------|--------------|------|------------------------------------|
| 728485 | 120 V / 60Hz | 2.5 | 280 | 4490 / 16,996 | 18.5 / 5.6 | 8.22 | 10.5 x 5.1 x 6.9 / 268 x 130 x 174 |

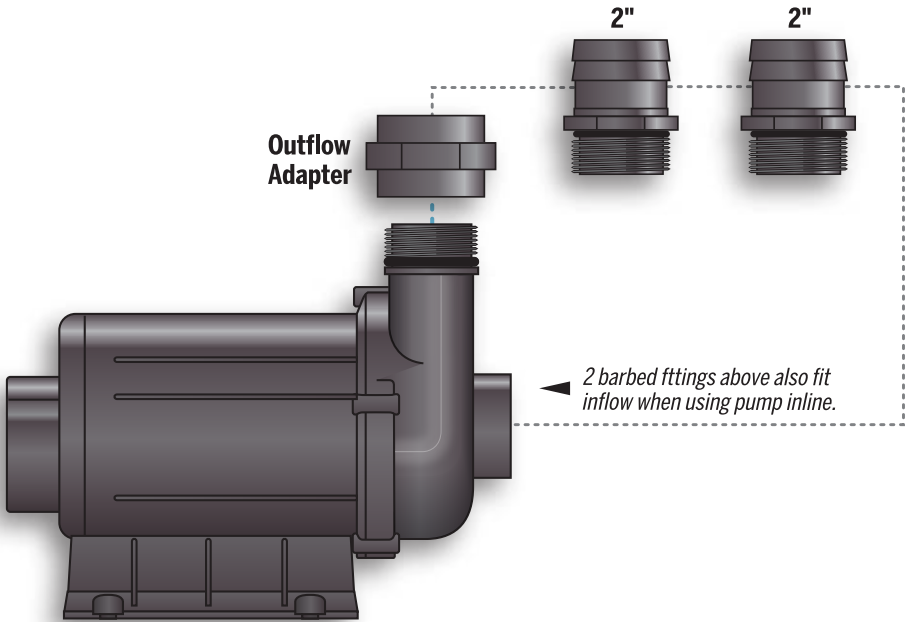


Head Capacities

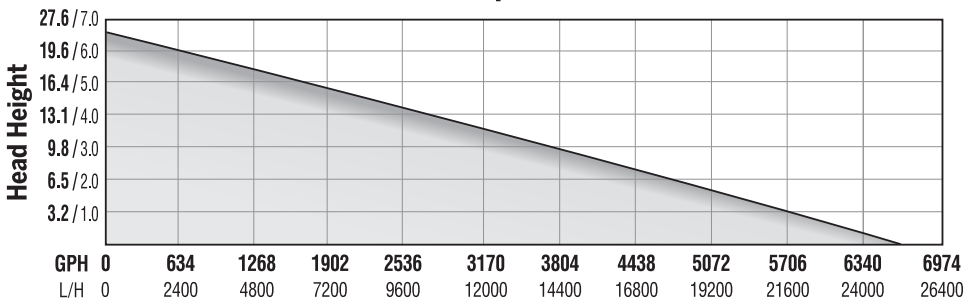


Eco-7400

| Product # | Power | Amps | Watts | GPH/LPH | H-Max (FT/M) | PSI | Dimensions (inch / mm) |
|-----------|--------------|------|-------|---------------|--------------|------|------------------------------------|
| 728340 | 120 V / 60Hz | 6.00 | 550 | 6657 / 25,200 | 21.7 / 6.6 | 9.59 | 10.5 x 5.1 x 6.9 / 268 x 130 x 174 |



Head Capacities



WARRANTY INFORMATION

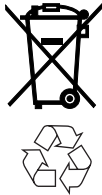
This product has a warranty of one year for any defects in materials or workmanship. Warranty is **NOT VALID** if the pump is not properly used, neglected, or there is a lack of maintenance or accidental damage either to the pump or to the impeller or impeller shaft. If the pump fails due to manufacturing fault within this warranty period, the pump will either be repaired or replaced free of charge. Please return the pump to the place of purchase with the original bill receipt.

The manufacturer or distributor shall not be held responsible for any damages cause by defective components or materials, or for loss incurred because of the interruption of services or any consequential, or incidental damages or expenses arising from the manufacture, sale, use or misuses of this product. The manufacturer shall not be held responsible for any loss of fish, plants or other livestock as a result of any failure or defect of this product.

This warranty excludes the sponge prefilter and impeller which may require replacing annually.

- Use with 120 volt power source.
- The pump is provided with a thermal protector that temporarily switches off the pump in case of overheating and the pump may automatically restart.

PLEASE BE RESPONSIBLE



DO NOT dispose of this product in the trash, on the landscape or into any unsorted waste stream! It may contain hazardous substances that can leach into groundwater and find their way into the food chain. This unit contains **VALUABLE RESOURCES** that can be recycled and re-used.



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